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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,287	04/09/2004	Vladislav Vashchenko	100-24500 (P05848)	1115
33402	7590	03/07/2006	EXAMINER	
LAW OFFICES OF MARK C. PICKERING P.O. BOX 300 PETALUMA, CA 94953			PRENTY, MARK V	
			ART UNIT	PAPER NUMBER
			2822	

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/821,287

Applicant(s)

VASHCHENKO ET AL.

Examiner

MARK PRENTY

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2822

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 February 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2-11 and 16-38 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 18-20 and 24-26 is/are allowed.
- 6) ☒ Claim(s) 2, 28 and 29 is/are rejected.
- 7) ☒ Claim(s) 3-11, 16, 17, 21-23 and 27-38 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

This Office Action is in response to the amendment filed on February 22, 2006.

Claim 17 is objected to because it depends on canceled claim 12. Correction is required.

Independent claim 28 is objected to because "the second semiconductor material" (last paragraph) should read, "the second semiconductor region". Correction is required. Claims 29-38 depend on independent claim 28 and are thus similarly objected to.

Claims 2, 28 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by United States Patent 6,998,651 to Vashohenko et al. (Vashohenko).

As to independent claim 2, Vashohenko discloses a silicon controlled rectifier (see the entire patent, particularly the Fig. 2 disclosure) comprising: a semiconductor region 224 of a first (p) conductivity type; a semiconductor region 222 of a second (n) conductivity type that contacts the semiconductor region of the first conductivity type; a first region 210 of the first conductivity type that contacts the semiconductor region of the second conductivity type and is spaced apart from the semiconductor region of the first conductivity type, the first region having a first length; a second region 212 of the second conductivity type that contacts the semiconductor region of the second conductivity type and is spaced apart from the semiconductor region of the first conductivity type, the second region having a second length and being spaced apart from the first region, the first and second lengths being measured along substantially parallel lines, the first length being substantially longer than the second length; a first isolation section (the sti between elements 208 and 210) that contacts the

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semiconductor region 222 of the second conductivity type and the first region 210; and a second isolation section (the sti between elements 210 and 212) that contacts the semiconductor region 222 of the second conductivity type, the first region 210, and the second region 212, the first region 210 lying between the first and second isolation sections.

Claim 2 is thus rejected under 35 U.S.C. 102(e) as being anticipated by Vashohenko.

As to independent claim 28, Vashohenko discloses a silicon controlled rectifier structure (see the entire patent, particularly the Fig. 2 disclosure) comprising: a first semiconductor region 224 having a first (p) conductivity type; a second semiconductor region 222 having a second (n) conductivity type, the second semiconductor region contacting the first semiconductor region; a first doped region 210 of the first conductivity type that contacts the second semiconductor region, the first doped region being spaced apart from the first semiconductor region, and having a first dimension; a second doped region 212 of the second conductivity type that contacts the second semiconductor region, the second doped region being spaced apart from the first semiconductor region and the first doped region, and having a second dimension, the first and second dimensions being measured along substantially parallel lines, the first dimension being substantially longer than the second dimension; and an isolation region sti that contacts the second semiconductor region 222, the first doped region 210, and the second doped region 212, the isolation region sti lying between the first and second doped regions.

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Claim 28 is thus rejected under 35 U.S.C. 102(e) as being anticipated by Vashohenko.

As to dependent claim 29, Vashohenko's second doped region 212 contacts a region of the second semiconductor region 222 that has a lower dopant concentration than a (n+) dopant concentration of the second doped region 212.

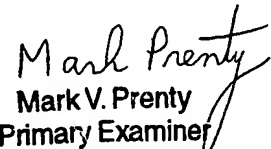
Claim 29 is thus rejected under 35 U.S.C. 102(e) as being anticipated by Vashohenko.

Claims 3-11, 16, 21-23 and 27 are objected to as being dependent upon a rejected base claim, but would be allowable over the prior art of record if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 18-20 and 24-26 are allowable over the prior art of record.

The prior art of record does not disclose or suggest the allowable silicon controlled rectifier structure taken as a whole.

Registered practitioners can telephone the examiner at (571) 272-1843. Any voicemail message left for the examiner must include the name and registration number of the registered practitioner calling, and the Application/Control (Serial) Number. Technology Center 2800's general telephone number is (571) 272-2800.

  
Mark V. Prenty  
Primary Examiner